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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/914,984	12/18/2001		Viktor Van Stoller	Mo-6617/STA-155	
34947	7590	05/02/2003			
BAYER CHEMICALS CORPORATION 100 BAYER ROAD				EXAMINER	
PITTSBURGH, PA 15205			RUTHKOSKY, MARK		
				ART UNIT	PAPER NUMBER
				1745	
				DATE MAILED: 05/02/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N .	Applicant(s)				
	09/914,984	STOLLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mark Ruthkosky	1745				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.				
1) Responsive to communication(s) filed on 17,	April 2003					
	nis action is non-final.					
3) Since this application is in condition for allows						
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
4)⊠ Claim(s) 22-43 is/are pending in the application	on.					
4a) Of the above claim(s) <u>30-41</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 22-30,42 and 43 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	, , , , , , , , , , , , , , , , , , ,					
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 18 December 2001 is/ar	re: a)⊠ accepted or b)□ objected to	by the Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
11) The proposed drawing correction filed on	_is: a)∏ approved b)∏ disapprov					
If approved, corrected drawings are required in rep		•				
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		n No.				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e)	(to a provisional application).				
a) The translation of the foreign language prov 15) Acknowledgment is made of a claim for domestic	or priority under 35 U.S.C. §§ 120 a	ived. and/or 121.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.	5) Notice of Information	PTO-413) Paper No(s) tent Application (PTO-152)				
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Acti	ion Summary	Part of Paner No. 11				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 22-29 and 42-43 in Paper No. 11 is acknowledged.

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. PCT/EP00/01667, filed on 2/28/2000.

Information Disclosure Statement

3. The information disclosure statement filed 11/18/2002 has been placed in the application file, and the information referred to therein has been considered as to the merits.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 22, 26-29 and 42-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With regard to claim 22, the nickel hydroxide is noted to have a pastel green color that does not change in the atmosphere for 4 weeks. It is not clear from

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the specification or the claims, specifically what the atmosphere may be as the specification discusses a variety of different atmospheres.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 22-25, 27-29 and 42-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Watada et al. (JP 10-021,901.)

The instant claims are to a coated nickel hydroxide having a cobalt (II) hydroxide coating that is stable to oxidation.

Watada et al. (JP 10-021,901) teaches a nickel hydroxide active material having a cobalt (II) hydroxide coating that is stable to oxidation (see the abstract). The cobalt (II) hydroxide coating is in the alpha-state, which is stable to oxidation. The cobalt compound may also include an additive doping element, such as aluminum, and weak organic anions, including carbonate anions in the range of 1-200 mmol. The nickel compound may also include additives, such as transition metals, in an amount of 0.2-25 % (wt.), (see pp. 34-46). The material is added as a coating to a substrate and is used as a cathode active material in a secondary battery.

With regard to claim 22, the reference teaches the same chemical compounds as in the instant application and does not teach the oxidation of nickel (II) to nickel (III), therefore, the oxidation state of nickel will inherently remain in the (II) oxidation state and the corresponding

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color will remain green due to the oxidation state. With regard to claim 23, the reference teaches the same chemical compounds as in the instant application and does not teach the oxidation state of cobalt to increase to the (III) oxidation state, therefore the oxidation state will inherently remain in the (II) oxidation state. With regard to claim 29, the reference does not teach the nickel hydroxide to have water molecules in the structure and, therefore, the structure will have less than 10% water.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Watada et al. (JP 10-021,901) in view of Yano et al. (US6, 007,946.)

Watada et al. (JP 10-021,901) teaches a cathode active material in a secondary battery including a nickel hydroxide active material having a cobalt (II) hydroxide coating that is stable to oxidation as previously described. Watada et al. (JP 10-021,901) does not teach the material to have an average particle size of 0.5-500 µm. Yano et al. (US 6,007,946) teaches a cathode active material in a secondary battery including a nickel hydroxide active material having a cobalt hydroxide coating. The examples show that the active material includes a cobalt-coated, nickel hydroxide active material with a mean diameter of 10 µm. It would be obvious to one of ordinary skill in the art at the time the invention was made to prepare an active material with an

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average particle size of 0.5-500 μ m as the material will have a large surface area for electrochemical activity and electron transfer. Further, one of ordinary skill would recognize the desirability of an average particle size of 0.5-500 μ m to form a uniform mixture in an electrode and provide a high concentration of active material for increased capacity. The artesian would have found the claimed invention to be obvious in light of the teachings of the references.

Examiner Correspondence

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1193. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Ruthkosky whose telephone number is 703-305-0587. The examiner can normally be reached on FLEX schedule (generally, Monday-Thursday from 9:00-6:00.) If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached at 703-308-2383.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Mark Ruthkosky

Patent Examiner

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